



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.ustol o.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/13/2003

William J. Munck, Esq. Docket Clerk P.O. Drawer 800889 Dallas, TX 75380 EXAMINER

KINKEAD, ARNOLD M

ART UNIT CLASS-SUBCLASS

331-10700A

2817

DATE MAILED: 08/13/2003

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	'ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801.452	03/08/2001	Darrell Lee Ash	RFMI01-00214	6467

TITLE OF INVENTION: NOISE RESISTANT LOW PHASE NOISE, FREQUENCY TRACKING OSCILLATORS AND METHODS OF OPERATING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO.	\$1300	\$300	\$1600	11/13/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

<u>Fax</u> (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notification		ise in block 1, by (a) sp	echynig a new co	_	ess; and/or (b) indicating a sep	
CURRENT CORRESPONDENCE	CE ADDRESS (Note: Legibly mar) 590 08/13/2003	•	Block I)	Note: A certificat Fee(s) Transmitt accompanying pa formal drawing, n	e of mailing can only be used fall. This certificate cannot apers. Each additional paper, nust have its own certificate of	or domestic mailings of the be used for any other such as an assignment or mailing or transmission.
Docket Clerk P.O. Drawer 80088 Dallas, TX 75380		I hereby certify United States Pos envelope addresse transmitted to the	Certificate of Mailing or Tranthat this Fee(s) Transmittal is tal Service with sufficient posted to the Box Issue Fee addres USPTO, on the date indicated	ismission is being deposited with the age for first class mail in an is above, or being facsimile below.		
					O. 10, on the date material	(Depositor's name)
						(Signature)
	•					(Date)
						(=/)
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,452 TITLE OF INVENTION: SAME	03/08/2001 NOISE RESISTANT LC	OW PHASE NOISE, FR	Darrell Lee Ash EQUENCY TRA	CKING OSCILLA	RFMI01-00214 TORS AND METHODS OF	6467 OPERATING THE
APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBL	ICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300		\$300	\$1600	11/13/2003
EXAMI		ART UNIT	CLASS-SUBC			
KINKEAD, A	RNOLD M	2817	331-10700	JA		
Address form PTO/SB/1 "Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME ANI	ion (or "Fee Address" Ind or more recent) attached. D RESIDENCE DATA TO an assignee is identified by I to the USPTO or is being	ication form Use of a Customer D BE PRINTED ON THE selow, no assignee data we submitted under separate	or agents OR, single firm (he attorney or ag registered pater is listed, no nan E PATENT (print of the cover. Completic	natent Inclusion of	the name of a are a registered as of up to 2 ats. If no name 3	ate when an assignment has ignment.
Please check the appropriate	e assignee category or cat	egories (will not be printe	d on the patent)	☐ individual	Corporation or other private	group entity
4a. The following fee(s) are	enclosed:		yment of Fee(s):			
☐ Issue Fee			check in the amount of the fee(s) is enclosed.			
Publication Fee		•	ayment by credit card. Form PTO-2038 is attached. The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to			
☐ Advance Order - # of C	Copies		it Account Number		(enclose an extra copy of this	s form).
Commissioner for Patents is	s requested to apply the Is	sue Fee and Publication F	Fee (if any) or to re	e-apply any previou	asly paid issue fee to the applica	ition identified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee an other than the applicant; interest as shown by the re	nd Publication Fee (if req a registered attorney or ecords of the United States	uired) will not be accep agent; or the assignee of s Patent and Trademark C	ted from anyone or other party in Office.			
This collection of inform obtain or retain a benefit application. Confidentialli estimated to take 12 minu completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner Under the Paperwork Research	tites to complete, including, mrm to the USPTO. Time the amount of time you this burden, should be so Office, U.S. Department SEND FEES OR COMF for Patents, Alexandria,	g gathering, preparing, at will vary depending upon the require to complete the complete of th	on the individual this form and/or ion Officer, U.S. andria, Virginia HIS ADDRESS.			
collection of information	unless it displays a valid C	MB control number.	polia to u			



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

PPLICATION NO. FILING DATE FIRST		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/801,452	03/08/2001	Darrell Lee Ash	RFMI01-00214	6467
7590 08/13/2003			EXAMINI	ER
William J. Munck, Esq.			KINKEAD, ARNOLD M	
Docket Clerk P.O. Drawer 80088	9		ART UNIT	PAPER NUMBER
Dallas, TX 75380			2817	
			DATE MAILED: 08/13/2003	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,452		03/08/2001	Darrell Lee Ash	RFMI01-00214 6467	
	7590	08/13/2003		EXAMIN	ER
William J. Munck, Esq.		•	KINKEAD, ARNOLD M		
Docket Clerk P.O. Drawer 8008	89			ART UNIT	PAPER NUMBER
Dallas, TX 75380 UNITED STATES		_	2817		
			D	ATE MAILED: 08/13/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
Notice of Allowability	09/801,452 Examiner	ASH, DARRELL LEE Art Unit
	Arnold M Kinkead	2817
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication (IGHTS). This application is subject	pplication. If not included on will be mailed in due course. THIS
 This communication is responsive to <u>06-26-03</u>. The allowed claim(s) is/are <u>1-20</u>. The drawings filed on <u>08 March 2001</u> are accepted by the Acknowledgment is made of a claim for foreign priority unday and All by Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have * Ceptified copies not received: 	der 35 U.S.C. § 119(a)-(d) or (f). e been received. e been received in Application No.	
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority u (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority u Applicant has THREE MONTHS FROM THE "MAILING DATE" o below. Failure to timely comply will result in ABANDONMENT of	application has been received. Inder 35 U.S.C. §§ 120 and/or 121. If this communication to file a reply	complying with the requirements noted
7. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which gives reasonable to the contract of the contract		
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing (c) including changes required by the attached Examiner	correction filed, which has r's Amendment / Comment or in the	been approved by the Examiner. Office action of Paper No
Identifying indicia such as the application number (see 37 CFR 1 each sheet. 9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 1	osit of BIOLOGICAL MATERIAL	must be submitted. Note the
Attachment(s)		
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4⊠ Interview Sumi 6⊠ Examiner's Am	mal Patent Application (PTO-152) mary (PTO-413), Paper No nendment/Comment stement of Reasons for Allowance
	4	MM

U.S. Patent and Trademark Office PTO-37 (Rev. 04-03) Art Unit: 2817

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of

such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. William A.

Munck(39,308) on August 7, 2003.

The application has been amended as follows:

In claim 1, line 9, claim 7, line 4, claim 14, line 4, "at least one tuning capacitance" is now—at least one variable tuning capacitance—.

In claim 3, line 2, "the inductor" is now—the at least one inductance--.

In claim 14, lines 2,4, and 5, claim 15, lines 5, 8, and 9, in claim 16, line 2, in claim 17, line 2, in claim 18, lines 2,3, and 6

" the SAW" is now-the two port differential SAW--.

2. The following is an examiner's statement of reasons for allowance: The examiner could not find fair suggestion for the coupling of an inductance across both inputs or outputs of the two port differential oscillator and having at least one variable tuning capacitance...the inductance connected and sized to tune out stray capacitance.

Art Unit: 2817

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled " Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M Kinkead whose telephone number is 703-305-3486. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 703-308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7724 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Árnold M Kinkead Primary Examiner Art Unit 2817

Arnold Kinkead

August 7, 2003

	Applicati n No.	Applicant(s)
Examiner-Initiated Interview Summary	09/801,452	ASH, DARRELL LEE
•	Examiner	Art Unit
w/ *	Arnold M Kinkead	2817
All Participants:	Status f Application:	_
(1) <u>Arnold M Kinkead</u> .	(3)	
(2) Mr. William A. Munck.	(4)	
Date of Interview: 7 August 2003	Time:	
Type of Interview: ☐ Telephonic ☐ Video Conference ☐ Personal (Copy given to: ☐ Applicant Exhibit Shown or Demonstrated: ☐ Yes ☐ Yes, provide a brief description:	nt's representative)	
Part I.		
Rejection(s) discussed:		
Claims discussed: 1,3,7, and 14-18 Prior art documents discussed:		
Part II.		
SUBSTANCE OF INTERVIEW DESCRIBING THE GENER 112, 2 nd para issues resolved	RAL NATURE OF WHAT WAS	S DISCUSSED:
Part III.		
 ☑ It is not necessary for applicant to provide a separate redirectly resulted in the allowance of the application. The of the interview in the Notice of Allowability. ☑ It is not necessary for applicant to provide a separate redid not result in resolution of all issues. A brief summary 	examiner will provide a writte ecord of the substance of the	en summary of the substance interview, since the interview
, A		
lelen		
(Examiner/SPE Signature) (Applicant/	Applicant's Representative Signature	gnature – if appropriate)